45. (NEW) A transducer for converting between mechanical and electrical energy, the transducer comprising:

at least two electrodes; and

a polymer arranged in a manner which causes a portion of the polymer to deflect in response to a change in electric field and/or arranged in a manner which causes a change in electric field in response to deflection of the polymer, wherein the polymer comprises one or more of the following: i) an additive, 2) a monoethylenically unsaturated monomer homopolymerizable to form a polymer having a glass transition temperature less than about 0 degrees Celsius, 3) a thermoplastic elastomer, 4) silicone and acrylic moieties, 5) a layer laminated to at least a portion of one of the polymer and 6) combinations thereof.

46. (NEW) The transducer of claim 1, wherein the polymer includes pre-strain.

47. (NEW) The transducer of claim 1, wherein the polymer has an elastic modulus below about 100 MPa.

48. (NEW) The transducer of claim 1, wherein the polymer has a maximum elastic area strain of at least about 10 percent.

49. (NEW) The transducer of claim 1, wherein the polymer comprises a multilayer structure.

50. (NEW) The transducer of claim 49, wherein the multilayer structure comprises two or more layers of electroactive polymers.